

Amos G Winter, V

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

598
citations

840776

11
h-index

610901

24
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31
all docs

31
docs citations

31
times ranked

555
citing authors

#	ARTICLE	IF	CITATIONS
1	Justification for community-scale photovoltaic-powered electro dialysis desalination systems for inland rural villages in India. <i>Desalination</i> , 2014, 352, 82-91.	8.2	90
2	A robust model of brackish water electro dialysis desalination with experimental comparison at different size scales. <i>Desalination</i> , 2018, 443, 27-43.	8.2	77
3	Localized fluidization burrowing mechanics of <i>Ensis directus</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 2072-2080.	1.7	73
4	Feasibility study of an electro dialysis system for in-home water desalination in urban India. <i>Development Engineering</i> , 2017, 2, 38-46.	1.8	48
5	The Effects of Prosthesis Inertial Properties on Prosthetic Knee Moment and Hip Energetics Required to Achieve Able-Bodied Kinematics. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 754-763.	4.9	34
6	Optimization and design of a low-cost, village-scale, photovoltaic-powered, electro dialysis reversal desalination system for rural India. <i>Desalination</i> , 2019, 452, 265-278.	8.2	33
7	Cost-optimal design of a batch electro dialysis system for domestic desalination of brackish groundwater. <i>Desalination</i> , 2018, 443, 198-211.	8.2	32
8	Identification and Evaluation of the Atlantic Razor Clam (<i>Ensis directus</i>) for Biologically Inspired Subsea Burrowing Systems. <i>Integrative and Comparative Biology</i> , 2011, 51, 151-157.	2.0	24
9	Field demonstration of a cost-optimized solar powered electro dialysis reversal desalination system in rural India. <i>Desalination</i> , 2020, 476, 114217.	8.2	24
10	Developing World Users as Lead Users: A Case Study in Engineering Reverse Innovation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	2.9	22
11	Teaching RoboClam to Dig: The design, testing, and genetic algorithm optimization of a biomimetic robot. , 2010, , .		16
12	Design and Preliminary Field Validation of a Fully Passive Prosthetic Knee Mechanism for Users With Transfemoral Amputation in India. <i>Journal of Mechanisms and Robotics</i> , 2018, 10, .	2.2	15
13	Using feed-forward voltage-control to increase the ion removal rate during batch electro dialysis desalination of brackish water. <i>Desalination</i> , 2019, 457, 62-74.	8.2	11
14	Passive Prosthetic Foot Shape and Size Optimization Using Lower Leg Trajectory Error. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018, 140, .	2.9	10
15	Energy Reduction and Uniformity of Low-Pressure Online Drip Irrigation Emitters in Field Tests. <i>Water (Switzerland)</i> , 2019, 11, 1195.	2.7	10
16	The Effects of the Inertial Properties of Above-Knee Prostheses on Optimal Stiffness, Damping, and Engagement Parameters of Passive Prosthetic Knees. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	1.3	9
17	A Novel Framework for Quantitatively Connecting the Mechanical Design of Passive Prosthetic Feet to Lower Leg Trajectory. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1544-1555.	4.9	9
18	Voltage- and flow-controlled electro dialysis batch operation: Flexible and optimized brackish water desalination. <i>Desalination</i> , 2021, 500, 114837.	8.2	9

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19	Design and Testing of a Prosthetic Foot With Interchangeable Custom Springs for Evaluating Lower Leg Trajectory Error, an Optimization Metric for Prosthetic Feet. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	8
20	Experimental Demonstration of the Lower Leg Trajectory Error Framework Using Physiological Data as Inputs. Journal of Biomechanical Engineering, 2021, 143, .	1.3	7
21	Knee Swing Phase Flexion Resistance Affects Several Key Features of Leg Swing Important to Safe Transfemoral Prosthetic Gait. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 965-973.	4.9	6
22	Control of Flow Limitation in Flexible Tubes. Journal of Mechanical Design, Transactions of the ASME, 2017, 139, .	2.9	5
23	Design of spiral-wound electro dialysis modules. Desalination, 2019, 458, 54-65.	8.2	5
24	Lower Leg Trajectory Error: A novel optimization parameter for designing passive prosthetic feet. , 2015, , .		4
25	Analytical model for predicting activation pressure and flow rate of pressure-compensating inline drip emitters and its use in low-pressure emitter design. Irrigation Science, 2022, 40, 217-237.	2.8	4
26	Biomechanical evaluation over level ground walking of user-specific prosthetic feet designed using the lower leg trajectory error framework. Scientific Reports, 2022, 12, 5306.	3.3	4
27	Design of a Four-Bar Latch Mechanism and a Shear-Based Rotary Viscous Damper for Single-Axis Prosthetic Knees. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	3
28	Modular Design of a Passive, Low-Cost Prosthetic Knee Mechanism to Enable Able-Bodied Kinematics for Users With Transfemoral Amputation. , 2017, , .		2
29	Passive Prosthetic Foot Shape and Size Optimization Using Lower Leg Trajectory Error. , 2017, , .		2
30	Design of a Passive, Shear-Based Rotary Hydraulic Damper for Single-Axis Prosthetic Knees. , 2018, , .		2
31	A Novel Bio-Inspired Pressure Compensating Emitter for Low-Cost Drip Irrigation Systems. , 2016, , .		0